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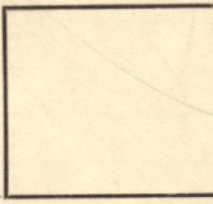
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton *Director*



State: Hawaiian Is.

DESCRIPTIVE REPORT

Topographic } Sheet No. 19 5331
Hydrographic }

LOCALITY

SOUTHEAST COAST OAHU I.

KAILUA BAY TO MAKAPU PEN.

19 33

CHIEF OF PARTY

Hubert A. Paton.

U. S. GOVERNMENT PRINTING OFFICE: 1921

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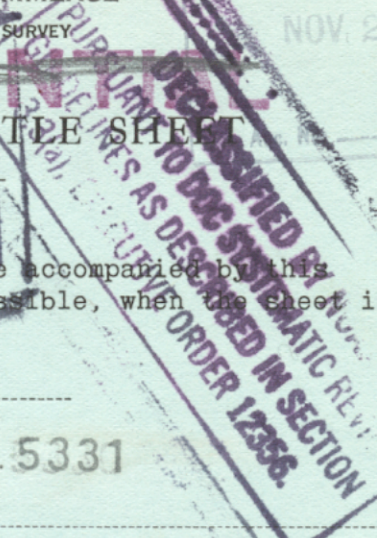
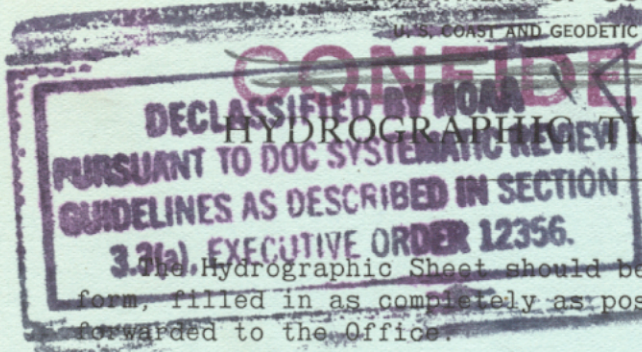
DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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NOV 29 1933

REG. NO. 5331



The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 19

REGISTER NO. 5331

3 State Hawaiian Islands

2 General locality Southeast Coast Oahu I.

1 Locality Kailua Bay to Mokuauia Pen.

Scale 1:5,000 Date of survey October, 1933.

Party

Vessel Inshore Hydrographic Survey of Oahu

Chief of Party Hubert A. Paton.

Surveyed by H. A. P.

Protracted by H. A. P.

Soundings penciled by H. A. P.

Soundings in fathoms feet

Plane of reference Mean Lower Low Water.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated July 14, 1931

Remarks: Surveyed in cooperation with the U. S. Army.

Descriptive Report

to accompany
Hydrographic Sheet No. 19.
Southeast Coast of Oahu
Kailua Bay to Mokapu Peninsula.

Instructions.

The work on this sheet was done in accordance with instructions dated July 14, 1931.

Purpose.

The purpose of the survey was to make a hurried investigation of possible landing sites for troops in case of war. The area had been surveyed in 1929 by the U. S. Army (See Blue Print No. 19, filed with H. 4832), but some additional information in the inshore areas was desired.

Junctions:

On the south this sheet joins No. 4832. The inshore soundings on Sheet No. 3287 fall within the area covered by this survey.

Methods:

The usual methods recommended in the Hydrographic Manual were followed. The topographic survey was made eighteen months before the hydrography could be done and a number of the signals had been destroyed. Additional signals were located by the hydrographic party by means of sextant fixes and cuts. The vessel used was a twenty foot dinghy powered with an out-board motor.

Character of Bottom:

The bottom over the greater part of the sheet is rough coral heads. South and west of Signal Pot there is a smooth sand ^{and coral} bottom.

Landings:

In favorable weather, small boats may pass through an opening in the reef east-south-east of Signal Row and troops could land on a sand beach near Signal Sat. One hundred meters ^{west} of Signal Gar, a small nook in the shore was improved by blasting out some rocks in order that the boats of the survey could be beached. A small sand beach will be found here.

Southwest of Signal Pot to the edge of the sheet, a smooth coral and sand bottom provide good landing places in favorable weather.

Submitted - *Hubert A. Paton*
Hubert A. Paton,
Lieut. U. S. C. & G. S.

November 28, 1933.

Tidal Sheet

to accompany

Hydrographic Sheet 19.

The soundings on this sheet were reduced from records obtained with a portable tide gage located at Waimanalo Pier, Waimanalo Bay. The readings on the staff are as follows:

Mean Lower Low Water	1.56
Highest tide observed	3.9
Lowest tide observed	1.4

Statistics
to accompany
Hydrographic Sheet 19.

Number of Positions	=	138
" " Soundings	=	686
" " miles of sounding lines	=	8.6
Area in square statute miles	=	0.7

Approval Sheet
to accompany
Hydrographic Sheet +19.

The above sheet and records have been examined and are approved.

Hubert A. Paton
Hubert A. Paton,
Chief of Party.

LAC

Division of Hydrography and Topography:

December 19, 1933

✓ Division of Charts:

Tide Records are approved in

1 volume/s of sounding records for

HYDROGRAPHIC SHEET 5331

Locality Kailua Bay to Makapu Peninsula, East Coast of Oahu, T. H.

Chief of Party: H. A. Paton in 1933

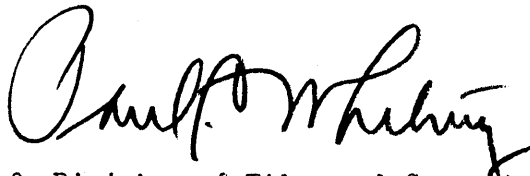
Plane of reference is mean lower low water reading

1.6 ft. on tide staff at Waimanalo

6.6 ft. below B. M. 3 (1927)

Height of mean higher high water above plane of reference is 1.9 feet

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents

SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5331
East Coast of Oahu, Hawaiian Islands
Surveyed in 1933
Hand lead soundings.
Instructions dated July 14, 1931. (H. A. Paton)

Chief of party - H. A. Paton.
Surveyed by - H. A. P.
Protracted and plotted by - H. A. P.
Verified and inked by - H. W. Murray, J. W. Day.


1. The records are clear and well kept. They conform to the requirements of the Hydrographic Manual, except in a few minor details which were due to the use of a soldier personnel.
2. The specific instructions are not rigid but provide for consultation with the U. S. Army.
3. The usual depths curves can not all be completely drawn, but the information is sufficient for drawing the greater part of the 12, 18 and 30 ft. curves for those portions of the sheet having such depths.
4. There are no cross lines but adjoining lines agree as well as can be expected in coral bottom of this character.
5. No contemporary surveys adjoin this work.

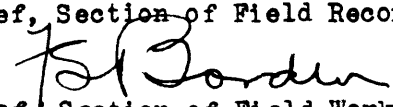
This sheet joins but does not overlap the survey of 1927, H. 4832, on its southern limits.

The inshore soundings from the survey of 1910, H. 3287, and the soundings from the U. S. Engineers survey of 1929, B. P. No. 19, (filed with H. 4832) join this work off shore. When the three surveys are combined the area is fairly well covered and the general agreement of the soundings is not bad.


6. The work on this sheet is not intended for a complete survey but was restricted to the needs of the U. S. Army in the areas close inshore.
7. No additional work necessary.

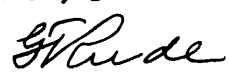
8. Reviewed by - R. L. Johnston - January 27, 1934.


L. O. Colbert,
Chief, Section of Field Records.


Chief, Section of Field Work.

Examined and approved:


Chief, Division of Charts.


Chief, Division of H. & T.

SECTION OF FIELD RECORDS
Report on Hydrographic Sheet No. 5331
Kailua Bay to Mokapu Peninsula
Oahu - Hawaiian Islands
Surveyed in Oct. 1933.

Instructions dated - July 14, 1931.
Chief of Party - Hubert A. Paton.
Surveyed by - H. A. P.
Protracted by - H. A. P.
Soundings plotted by - H. A. P.
Verified and inked by - Harold W. Murray and J. W. Day.

The records conform to the requirements of the Hydrographic Manual.

The plan and character of development fulfills the requirements of the Hydrographic Manual.

There are no soundings line crossings on the sheet.

The usual depth curves may be completely drawn within the limits of the sheet. On the open areas of the following approximate locations: Lat. 21°-25'-30.2" Long. 157°-44'-32"; Lat. 21°-26'-30.8" Long. 157°-44'-06"; Lat. 21°-26'-30.7" Long. 157°-44'-37", use was made of the 1929 survey by U. S. Engineer's Sheet No. 19 which is filed with H. 4832.

The field plotting and protracting were very good. The field protracting on this sheet was inspected and verified by Mr. Murray prior to assignment to the writer.

There are no contemporary surveys adjoining this sheet.

The shore line from Lat. 21°-27'-30" Long. 157°-43'-31" to Lat. 21°-27'-30.8" Long. 157°-45'-00" was added by the writer. Likewise the low water line and ledge limits of the entire sheet were transferred from T. 4742.

Submitted by - J. W. Day.